

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2004/007442

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07D413/12 A61K31/422 A61P3/10

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, CHEM ABS Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 01/00579 A (JAPAN TOBACCO INC ; FURUKAWA NOBORU (JP); SHINKAI HISASHI (JP)) 4 January 2001 (2001-01-04) claims 1,72-89; examples -----	1,16,17, 19,20, 22-27
A	WO 99/38845 A (TULARIK INC) 5 August 1999 (1999-08-05)  claims 1,17-26,42-52,68-84 -----	1,16,17, 19,20, 22-27
A	WO 00/47209 A (TULARIK INC) 17 August 2000 (2000-08-17) figure 3, compound A; claims 1,6,12,15 ----- -/--	1,16,17, 24,25



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

## \* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&amp;" document member of the same patent family

Date of the actual completion of the international search

8 November 2004

Date of mailing of the international search report

19/11/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Hass, C

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 00/64888 A (MCGEEHAN GERARD M ; ZHANG LITAO (US); BOBKO MARK (US); JAYYOSI ZAID) 2 November 2000 (2000-11-02) cited in the application claims 1,47-90	1,16,17, 19,20, 22-27
A	WO 00/78312 A (LOMBARDO VICTORIA K ; BOUERES JULIA K (US); HECK JAMES V (US)) 28 December 2000 (2000-12-28) cited in the application preparative examples; abstract; claims 1,14,23-30	1,16,17, 19,20, 22-27
A	WO 02/096358 A (HARIHARAN NARAYANAN ; SQUIBB BRISTOL MYERS CO (US); CHENG PETER T (US)) 5 December 2002 (2002-12-05) abstract; claims	1,12,13, 16-27
A	WO 02/060388 A (JONES A BRIAN ; MERCK & CO INC (US); ACTON JOHN J III (US)) 8 August 2002 (2002-08-08) claims	1,16-27
A	WO 01/82916 A (CHEN JIN LONG ; JAEN JUAN C (US); TULARIK INC (US)) 8 November 2001 (2001-11-08) claims; figures 2,3	1,19,20, 22,23,27
A	M. S. MALAMAS ET AL: "New Azolidinediones as Inhibitors of Protein Tyrosine Phosphatase 1B with Antihyperglycemic Properties" JOURNAL OF MEDICINAL CHEMISTRY, vol. 43, no. 5, 2000, pages 995-1010, XP002304508 cited in the application table 1	1,12,13, 19

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## Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:  
  
Although claims 16-19 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

## INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

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Patent document cited in search report		Publication date	Patent family member(s)		Publication date
WO 0100579	A	04-01-2001	AU	6064300 A	31-01-2001
			CA	2377309 A1	04-01-2001
			CN	1368961 T	11-09-2002
			EP	1192137 A1	03-04-2002
			JP	2003503387 T	28-01-2003
			NZ	516455 A	26-03-2004
			WO	0100579 A1	04-01-2001
			US	2003139390 A1	24-07-2003
			ZA	200200057 A	19-03-2003
WO 9938845	A	05-08-1999	AU	759255 B2	10-04-2003
			AU	2117699 A	16-08-1999
			CA	2318731 A1	05-08-1999
			EP	1053227 A1	22-11-2000
			JP	2002501945 T	22-01-2002
			WO	9938845 A1	05-08-1999
			US	2003088103 A1	08-05-2003
			US	6200995 B1	13-03-2001
			US	2001027200 A1	04-10-2001
			US	2002169185 A1	14-11-2002
WO 0047209	A	17-08-2000	AU	2852100 A	29-08-2000
			WO	0047209 A1	17-08-2000
WO 0064888	A	02-11-2000	AU	4689500 A	10-11-2000
			BR	0010605 A	13-02-2002
			CA	2370250 A1	02-11-2000
			CN	1349525 T	15-05-2002
			CZ	20013833 A3	13-02-2002
			EE	200100556 A	17-02-2003
			EP	1177187 A1	06-02-2002
			HR	20010795 A1	28-02-2003
			HU	0201291 A2	28-09-2002
			JP	2002543073 T	17-12-2002
			NO	20015075 A	23-11-2001
			NZ	515086 A	31-10-2003
			PL	351409 A1	22-04-2003
			SK	15532001 A3	04-06-2002
			WO	0064888 A1	02-11-2000
			US	6635655 B1	21-10-2003
			ZA	200108798 A	05-03-2003
WO 0078312	A	28-12-2000	AU	773505 B2	27-05-2004
			AU	5875500 A	09-01-2001
			CA	2376919 A1	28-12-2000
			EP	1194146 A1	10-04-2002
			JP	2003502369 T	21-01-2003
			WO	0078312 A1	28-12-2000
			US	6399640 B1	04-06-2002
WO 02096358	A	05-12-2002	CA	2449160 A1	05-12-2002
			CZ	20033230 A3	18-02-2004
			DE	02729306 T1	26-08-2004
			EP	1390363 A2	25-02-2004
			ES	2214168 T1	16-09-2004
			TR	200400650 T3	21-06-2004
			WO	02096358 A2	05-12-2002
			US	2003092736 A1	15-05-2003

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/007442

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 02096358	A		US 2003158232 A1	21-08-2003
WO 02060388	A	08-08-2002	CA 2434491 A1	08-08-2002
			EP 1357908 A2	05-11-2003
			JP 2004521119 T	15-07-2004
			WO 02060388 A2	08-08-2002
			US 2004061039 A1	01-04-2004
			US 2002100854 A1	01-08-2002
WO 0182916	A	08-11-2001	AU 6118001 A	12-11-2001
			WO 0182916 A2	08-11-2001
			US 2002037928 A1	28-03-2002